

#17W

PTO/SB/21 (04-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/810,020
	Filing Date	03/26/2004
	First Named Inventor	Lin, Henry C.
	Art Unit	1645
	Examiner Name	Swartz, Rodney P.
Total Number of Pages in This Submission	Attorney Docket Number	04-11US

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached \$65 <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> Request to Correct Priority Claim <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Supplemental Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Declaration and Power of Attorney, Declaration, 2 pages <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Information Disclosure Statement Reference List: Form 1449 (41 pages)
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Nasotech Pharmaceutical Company Inc., Peter J. Knudsen, Attorney, Registration No. 40682
Signature	
Date	October 31, 2005

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being submitted to the United States Postal Service, Priority Mail (2 boxes), to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Typed or printed name	Jeffrey L. Granger		
Signature		Date	October 31, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



PTO/SB/17 (12-04)

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Effective on 12/8/2004. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). FEE TRANSMITTAL For FY 2005		Complete if Known	
		Application Number	10/810,020
		Filing Date	3/26/2004
		First Named Inventor	Lin
		Examiner Name	Swartz, Rodney P.
<input type="checkbox"/> Applicant Claims small entity status. See 37 CFR 1.27		Art Unit	1645
TOTAL AMOUNT OF PAYMENT		(\$)	180.00
		Attorney Docket No.	04-11US

METHOD OF PAYMENT (check all that apply)☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____☒ Deposit Account Deposit Account Number: 502769 Deposit Account Name: Natestch Pharmaceutical Company Inc.

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below☐ Charges fee(s) indicated below, except for the filing fee☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17☒ Credit any overpayments

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	0.00
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Small Entity Fee (\$)	Small Entity Fee (\$)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180
Total Claims	Extra Claims	Fee (\$)
- 20 or HP = 0	x	\$50.00
= \$ 0.00		
HP = highest number of total claims paid for, if greater than 20		
Indep. Claims	Extra Claims	Fee (\$)
- 3 or HP = 0	x	\$200.00
= \$ 0.00		
HP = highest number of independent claims paid for, if greater than 3		

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41 (a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =	/ 50 =	(round up to a whole number)	x	=

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other: Submission of Information Disclosure Statement under 37 C.F.R. 1.17(p)

Fees Paid(\$)**180.00****SUBMITTED BY**

Signature	Registration No. 40682 (Attorney/Agent)	Telephone 425-908-3643
Name (Print/Type) Peter J. Knudsen		Date October 31, 2005

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Henry C. Lin

U.S. Patent Application Serial No.:
10/810,020

Filed: 3/26/2004

Title: METHODS FOR MANIPULATING
UPPER GASTROINTESTINAL
TRANSIT, BLOOD FLOW, AND
SATIETY, AND FOR TREATING
VISCERAL HYPERALGESIA

Examiner Name: Swartz, Rodney P.

Group Art Unit: 1645

Attorney Docket No.: 04-11US

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

This Information Disclosure Statement is submitted:

☐ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of international application; or **before mailing date of first office action** on the merits; whichever occurs last)

☒ under 37 CFR 1.97(c) together with either a:
☐ Statement under 37 CFR 1.97(e), or
☒ a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)

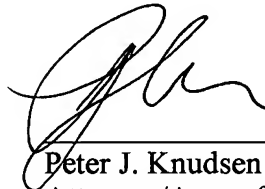
☐ under 37 CFR 1.97(d) together with a:
☐ Statement under 37 CFR 1.97(e), and
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

☒ Applicant(s) submit herewith Form PTO 1449-Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

The relevance of the attached references is that this is the closest art of which Applicant is aware. Applicant submits that the above references taken alone or in combination neither anticipate nor render obvious the present invention. Consideration of the foregoing in relation to this application is respectfully requested.

It is requested that the information disclosed herein be made of record in this application.

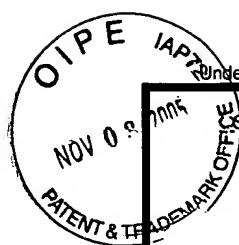
Respectfully submitted,

A handwritten signature in black ink, appearing to be 'P. Knudsen', written over a horizontal line.

Peter J. Knudsen
Attorney/Agent for Applicant(s)
Reg. No. 40682

Date: October 31, 2005

Telephone No.: (425) 908-3643
Facsimile No. (425) 908-3653



Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/810,020
				Filing Date	3/26/2004
				First Named Inventor	Lin
				Art Unit	1645
				Examiner Name	Swartz, Rodney P.
Sheet	1	of	41	Attorney Docket Number	04-11US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. 1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-4,002,531	Issued 1/11/1977	Pierce Chemical Company	
		US-5,122,614	Issued 6/16/1992	Enzon, Inc.	
		US-5,284,839	Issued 2/08/1994	Perstorp, AB	
		US-5,349,052	Issued 9/20/1994	Royal Free Hospital School of Medicine	
		US-5,428,128	Issued 6/27/1995	Mensi-Fattohi, N. et al.	
		US-5,643,575	Issued 7/01/1997	Enzon, Inc.	
		US-5,880,131	Issued 3/09/1999	Enzon, Inc.	
		US-5,936,092	Issued 10/10/1999	The University of Southern California	
		US-6,093,692	Issued 7/25/2000	The University of Southern California	
		US-6,127,355	Issued 10/03/2000	Enzon, Inc.	
		US-6,225,445	Issued 5/01/2001	The University of Southern California	
		US-6,355,478	Issued 3/12/2002	Eli Lilly and Company	
		US-6,410,707	Issued 6/25/2002	BioNebraska, Inc.	
		US-6,420,532	Issued 7/16/2002	Synaptic Pharmaceutical Corporation	
		US-6,447,743	Issued 10/10/2002	Atofina	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. 1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T6
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		PCT WO 93/19175 A1	9-30-1993	Novo Nordisk		
		PCT WO 95/06058 A1	3-02-1995	Royal Free Hospital School of Medicine		
		PCT WO 98/32466 A1	7-30-1998	Polymasc Pharmaceuticals PLC		
		PCT WO 96/22783	8-01-1996	North Carolina State University		
		PCT WO 99/43707 A1	9-02-1999	Novo Nordisk		
		PCT WO 00/34236 A1	6-15-2000	University of Southern California		
		PCT WO 00/42026 A1	7-20-2000	Novo Nordisk		
		PCT WO 00/68197	11-16-2000	Ortho-McNeil Pharmaceutical, Inc.		
		PCT WO 00/59887 A1	10-12-2000	Neurogen Corporation		

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>			Complete if Known		
			Application Number	10/810,020	
			Filing Date	3/26/2004	
			First Named Inventor	Lin	
			Art Unit	1645	
			Examiner Name	Swartz, Rodney P.	
Sheet	2	of	41	Attorney Docket Number	04-11US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. 1	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-4,160,452	07-1979	Theeuwes	
		US-4,183,960	01-1980	Asher et al.	
		US-4,193,985	03-1980	Bechgaard et al.	
		US-4,256,108	03-1981	Theeuwes	
		US-4,265,874	05-1981	Bonsen et al.	
		US-4,530,838	07-1985	Evans et al.	
		US-4,572,833	02-1986	Pedersen et al.	
		US-4,673,680	07/1987	Pendleton	
		US-4,690,822	09-1987	Uemura et al.	
		US-4,863,744	09-1989	Urquhart et al.	
		US-4,970,207	11-1990	Sato et al.	
		US-4,987,136	01-1991	Kreek et al.	
		US-4,990,617	02-1991	Boswell et al.	
		US-5,041,431	08-1991	Halskov	
		US-5,120,306	06-1992	Gosselin	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. 1	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T6
		PCT WO 00/78333 A2	12-28-2000	Eli Lilly and Company		
		PCT WO 01/04156 A1	1-18-2001	Zealand Pharmaceuticals A/S		
		PCT WO 01/14368 A1	3-01-2001	Viropharma Incorporated		
		PCT WO 01/14386 A1	3-01-2001	Banyu Pharmaceutical Co., Ltd.		
		PCT WO 01/35988 A1	5-25-2001	Novo Nordisk A/S		
		PCT WO 01/51078 A1	7-19-2001	Amylin Pharmaceuticals, Inc.		
		PCT WO 01/66135 A1	9-13-2001	Novo Nordisk A/S		
		PCT WO 01/76631 A2	10-18-2001	Cedars-Sinai Medical Center		
		PCT WO 01/89554 A2	11-29-2001	BioNebraska, Inc.		

Examiner Signature	Date Considered
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/810,020
				Filing Date	3/26/2004
				First Named Inventor	Lin
				Art Unit	1645
				Examiner Name	Swartz, Rodney P.
Sheet	3	of	41	Attorney Docket Number	04-11US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. 1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-5,219,871	06-1993	Cross et al.	
		US-5,225,352	07-1993	Zanetta et al.	
		US-5,236,901	08-1993	Burks et al.	
		US-5,322,697	06-1994	Meyer	
		US-5,354,757	10-1994	Flynn et al.	
		US-5,362,756	11-1994	Riviere et al.	
		US-5,380,522	01-1995	Day	
		US-5,411,751	05-1995	Crissinger et al.	
		US-5,426,028	06-1995	Levy et al.	
		US-5,434,174	07-1995	Gidda et al.	
		US-5,443,826	08-1995	Borody	
		US-5,453,428	09-1995	Kaminski	
		US-5,519,014	05-1996	Borody	
		US-5,538,856	07-1996	Levy et al.	
		US-5,547,961	08-1996	Ohta et al.	

FOREIGN PATENT DOCUMENTS						
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
		PCT WO 02/03978 A2	1-17-2002	Metabasis Therapeutics, Inc.; Sankyo Company Limited		
		PCT WO 02/066479 A1	8-29-2002	Banyu Pharmaceutical Co., Inc.		
		PCT WO 02/067918 A1	9-06-2002	Banyu Pharmaceutical Co., Inc.		
		EP 0 401 384 A1	12-12-1990	Kirin-Amgen, Inc.		
		EP 0 955 314 A2	11-10-1999	Adir et Compagnie		
		JP 60007934	1985			
		EP 0 200 902 A3	11-1986			
		EP 0 349 949	07-1989			

Examiner Signature		Date Considered	
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			Application Number	10/810,020	
			Filing Date	3/26/2004	
			First Named Inventor	Lin	
			Art Unit	1645	
			Examiner Name	Swartz, Rodney P.	
Sheet	4	of	41	Attorney Docket Number	04-11US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. 1	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-5,550,132	08-1996	Benson et al.	
		US-5,589,168	12-1996	Allen et al.	
		US-5,599,795	02-1997	McCann et al.	
		US-5,612,366	03-1997	Becker et al.	
		US-5,627,200	05-1997	Kreutter et al.	
		US-5,645,997	07-1997	Kline et al.	
		US-5,648,355	07-1997	Theoharides	
		US-5,648,359	07-1997	Ohashi et al.	
		US-5,660,828	08-1997	Rodriguez et al.	
		US-5,668,143	09-1997	Ku et al.	
		US-5,677,326	10-1997	Tsuchiya et al.	
		US-5,679,684	10-1997	Benson et al.	
		US-5,684,017	11-1997	Harrison et al.	
		US-5,691,343	11-1997	Sandborn et al.	
		US-5,703,100	12-1997	McDonald et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. 1	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		EP 0 539 319 A2	04-1993			
		WO 94/03380	03-1994			
		WO 96/18374	11-1996			
		WO 98/46997	10-1998			
		WO 98/56397	12-1998			
		FR 2 769 915	04-1999			
		WO 85/02840	07-1999			

Examiner Signature	Date Considered
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				Application Number	10/810,020
				Filing Date	3/26/2004
				First Named Inventor	Lin
				Art Unit	1645
				Examiner Name	Swartz, Rodney P.
				Attorney Docket Number	04-11US
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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. 1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
		US-5,707,642	01-1998	Yue	
		US-5,726,187	03-1998	Gaster et al.	
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		US-5,736,560	04-1998	Cosford et al.	
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		US-5,849,708	12-1998	Maratos-Flier	

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Sheet	7	of	41	Attorney Docket Number	04-11US

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		ABUCHOWSKI, A.; KAZO, G. M.; VERHOEST, C. R., JR.; VAN, ES T.; KAFKEWITZ, D.; NUCCI, M. L.; VIAU, A. T.; and DAVIS, F. F.; "Cancer Therapy With Chemically Modified Enzymes. I. Antitumor Properties of Polyethylene Glycol-Asparaginase Conjugates;" <i>Cancer Biochem. Biophys.</i> ; June 1984; 7 (2); 175-186	
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		KENCHIAIAH, S.; EVANS, J. C.; LEVY, D.; WILSON, P. W.; BENJAMIN, E. J.; LARSON, M. G.; KANNEL, W. B.; and VASAN, R. S.; "Obesity and the Risk of Heart Failure;" <i>N. Engl. J. Med.</i> ; August 2002; 347 (5); 305-313	
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			<i>First Named Inventor</i>	Lin
			<i>Art Unit</i>	1645
			<i>Examiner Name</i>	Swartz, Rodney P.
(Use as many sheets as necessary)			<i>Attorney Docket Number</i>	04-11US
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			Application Number	10/810,020	
			Filing Date	3/26/2004	
			First Named Inventor	Lin	
			Art Unit	1645	
			Examiner Name	Swartz, Rodney P.	
Sheet	16	of	41	Attorney Docket Number	04-11US

NON PATENT LITERATURE DOCUMENTS

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Sheet 21 of 41

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Application Number	10/810,020
Filing Date	3/26/2004
First Named Inventor	Lin
Art Unit	1645
Examiner Name	Swartz, Rodney P.
Attorney Docket Number	04-11US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
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				First Named Inventor	Lin
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				Examiner Name	Swartz, Rodney P.
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Sheet	27	of	41		

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				<i>Art Unit</i>	1645
				<i>Examiner Name</i>	Swartz, Rodney P.
(Use as many sheets as necessary)				<i>Attorney Docket Number</i>	04-11US
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			Examiner Name	Swartz, Rodney P.	
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